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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,020	09/16/2003	Harold W. Chase	YOR919980343US2 (12675Z)	2534
23389	7590	02/06/2006		EXAMINER
SCULLY SCOTT MURPHY & PRESSER, PC 400 GARDEN CITY PLAZA SUITE 300 GARDEN CITY, NY 11530			DIMYAN, MAGID Y	
			ART UNIT	PAPER NUMBER
				2825

DATE MAILED: 02/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

H10

Office Action Summary	Application No.	Applicant(s)
	10/663,020	CHASE ET AL.
	Examiner	Art Unit
	Magid Y. Dimyan	2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 9/16/2003 - 12/19/2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-45 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 2-11 and 31-45 is/are allowed.

6) Claim(s) 1 and 12-14 is/are rejected.

7) Claim(s) 15-30 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 16 September 2003 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. This is with regards to U.S. Application No. 10/663,020, filed 16 September 2003, which is a continuation of U.S. Application No. 09/406,664 filed on 16 September 1999 now abandoned. Claims 1 – 45 are pending in this Application.

Response to Remarks

2. Applicant's Remarks, filed 16 September 2003 with respect to the rejections of claims 1 - 4, 6 - 8, 10, 12, 31, 32 and 34 - 40 under 35 U.S.C. 102(e) and claims 5, 9, 11, 13 - 30, 33 and 41 - 45 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, new grounds of objections and rejections are made in view of what is cited below.

Specification

3. The disclosure is objected to because of the following informalities:

- In the amendment to the specification filed 9/16/2003, page 1, line 5, insert – , now abandoned– after “1999”.

Appropriate correction is required.

Claim Objections

4. Claim 1 is objected to because of the following informalities:

- Claim 1, line 3, insert – and– after “.”.

5. Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1, 12, 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by "Single Electron Switching Events in Nanometer-Scale Si MOSFET's" (IEEE Transactions on Electron Devices, Vol. ED-32, No. 9, Sept. 1985, pp. 1669-1674) to Howard, et al.

8. Referring to claim 1, Howard, et al. teaches a method for characterizing circuit activity in an IC (see Abstract; Section I - Introduction on page 1669; Fig. 2) comprising: activating an IC (see section IV – Experimental on pages 1671 – 1673), generating the switching activity of individual switching events (see also Figs. 4, 5 and 6 which show the switching activity of individual switching events in both space and in time); and generating a representation of the switching behavior which differentiates the time that individual circuits or transistors switch (again see Abstract; Experimental; Figs 4 – 6). Thus, Howard et al. clearly discloses all the claimed limitations.

9. Claim 12 contains the same limitations found in claim 1, and therefore the same rejections also apply.

10. As for claims 13 and 14, see again Figs. 4 – 6 and Section IV on pages 1671 – 1673 which cite the claimed limitations pertaining to the IC design viewer which provide

means to view the measured switching activity spatially and/or temporally, and means for relating the switching devices between the design viewer representations.

Allowable Subject Matter

11. Claims 15 – 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
12. Claims 2 – 11 and 31 – 45 are allowed.
13. The following is a statement of reasons for the indication of allowable subject matter: prior art does not teach, or fairly suggest, the additional claimed limitations pertaining to generating emissions via the switching activity in the region of interest to identify individual switching events that can be used to characterize circuit activity.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magid Y. Dimyan whose telephone number is (571) 272-1889. The examiner can normally be reached on Monday - Friday 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Magid Y Dimyan
Examiner
Art Unit 2825

myd
01 February 2006

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VUTHE SIEK
PRIMARY EXAMINER